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# **Presentations of the successor relation of computable linear ordering**

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## **Abstract**

We prove that a nontrivial degree spectrum of the successor relation of either strongly  $\eta$ -like or non- $\eta$ -like computable linear orderings is closed upwards in the class of all computably enumerable degrees. We also show that the degree spectrum contains 0 if and only if either it is trivial or it contains all computably enumerable degrees. © 2010 Allerton Press, Inc.

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## **Keywords**

computable presentations, linear orderings, successor relation, Turing degree spectra